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(54) Title: VISUAL INSPECTION SYSTEMS FOR CONTAINERS OF LIQUID PHARMACEUTICAL PRODUCTS

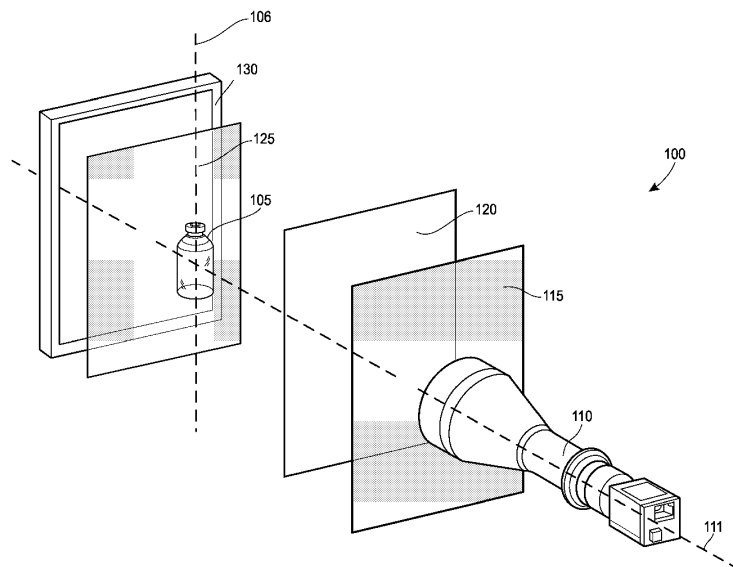


FIG. 1A

(57) Abstract: An automated visual inspection (AVI) system may include at least one profile view imager having an optical axis that passes through an inspection object, a proximal polarizing film axially aligned with the optical axis, a liquid crystal device axially aligned with the optical axis, a distal polarizing film axially aligned with the optical axis, and at least one light source oriented to emit illumination toward the distal polarizing film. Alternatively, or additionally, an AVI system may include a profile view imager having an optical axis that enters a container through a side wall of the container, and a ring light that is coaxially aligned with a central axis of the container, below the container, and oriented to emit light toward a bottom of the container. The AVI system may also include a bottom imager coaxially aligned with the central axis and oriented to view the bottom of the container.

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